

CHECK LIST FOR THE B.S. DEGREE IN BIOLOGY

B.S. PREPARATION FOR THE SSTC IN BIOLOGY

SSTC Adviser: Dr. Kathy S. Williams (PS 151)

This program prepares for the Single Subject Credential Program in Biology. Completion of these courses and the other SDSU degree requirements will earn a BS in Biology and you will have demonstrated subject matter competency, in lieu of taking the CSET exams.

PREPARATION FOR THE MAJOR (39 units of required lower division courses + 4 for the SSTC)

Biol 203	Principles of Cell & Molec. Biol.	3	_____	Chem 232	Organic Chemistry	3	_____
Biol 203L	Princ. of Cell & Molec. Biol. Lab	1	_____	Chem 232L	Organic Chemistry Lab	1	_____
Biol 204	Principles of Organismal Biology	3	_____	Math 121	Calculus for the Life Sciences I	3	_____
Biol 204L	Princ. of Organismal Biology Lab	1	_____	Math 122	Calculus for the Life Sciences II	3	_____
Biol 215	Biostatistics	3	_____	Phys 180A	Fundamentals of Physics	3	_____
Chem 200	General Chemistry	5	_____	Phys 182A	Physical Measurements	1	_____
Chem 201	General Chemistry	5	_____	Phys 180B	Fundamentals of Physics	3	_____
				Phys 182B	Physical Measurements	1	_____

Biology is an **impacted major**. Students who wish to declare a Biology major are initially placed into the Biology **premajor**. Premajors must meet department-specific criteria in order to be admitted to the major. (Note that admission to SDSU is a separate process from admission to the major, and is reviewed by a separate administrative unit.)

For this catalog year, admission to the Biology major requires:

- completion of the Preparation for the Major courses
- a GPA of 2.7 or higher in Preparation courses
- a minimum grade of C in each Preparation course
- an overall GPA of at least 2.6
- satisfaction of the lower-division writing competency requirement
- no coursework for the premajor or the major may be graded Cr/NC

Students who have completed these requirements must meet with the Biology undergraduate advisors to be admitted to the major. Students who do not meet one or more minimum grade or minimum GPA requirements should meet with the Biology undergraduate advisors to determine the appropriate course of action.

BIOLOGY B.S., WITH PREPARATION FOR THE SSTC IN BIOLOGY

Required courses (Minimum of 36 upper division units is required for the B.S.).

Biol 352	Genetics and Evolution	3	_____	Biol 436	Human Physiology Laboratory	2	_____	
Biol 354	Ecology and the Environment	3	_____	Biol 452	Sci Concept Develop & Integration ¹	3	_____	
Biol 354L	Ecology and the Environment Lab	2	_____	Biol 590	Physiology of Human Systems ²	4	_____	
Chem 365	Biochem., Cell & Mol. Biol. I	3	_____	At least one organismal course listed below			3-4	_____
Biol 366	Biochem., Cell & Mol. Biol. II	4	_____	Other electives from Biology and Chemistry courses 350				
Biol 366L	Biochem., Cell & M. Biol. Lab. I	2	_____	and higher, to reach the min. 36 UD units			6-7	_____

At least one elective must be selected from this specific list of organismal courses:

†Biol 458	Plant Biology	4	_____	†Biol 524	Ornithology	4	_____
Biol 460	Economic Botany	3	_____	†Biol 525	Mammalogy	4	_____
†Biol 530	Plant Systematics	4	_____	Biol 526	Terrestrial Arthropod Biology	4	_____
Biol 515	Marine Invertebrate Zoology	4	_____	Biol 531	Taxonomy of California Plants	4	_____
†Biol 523	Herpetology	4	_____				

ADDITIONAL COURSES FOR SINGLE SUBJECT BIOLOGY TEACHERS

Additional requirements for SSTC coursework alternative to CSET. Not required for the Biology major.

Geol 101	Dynamics of the Earth Lab	1	_____	Geol 104	Earth Science	3	_____
N Sci 315	History of Science & Technol. ^{3,4}	3	_____				

Prerequisites for the SDSU Teacher Credential postbac program. Not required for the Biology major or CSET waiver.

TE 280	Health Ed for Teachers	1	_____	ED 451	Intro Multicultural Education ⁴	3	_____
				SPED 450	Classroom Ad. for Special Pop. ⁴	2	_____

Additional notes:

- ¹ Grade of B or better required in Biology 452 for CSET waiver.
- ² You may substitute Biol 336 for Biol 590 and still satisfy SSTC CSET waiver requirements. However, Biol 336 will not count as an UD elective for the Biology major.

- ³ In some semesters, special sections of Physics 499 may be substituted for N Sci 315 – WITH PRIOR ADVISOR APPROVAL.
- ⁴ These three UD courses do not satisfy major or GE requirements.
 - We recommend Linguistics 420 for GE Explorations, part B.